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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|---------------------|----------------------|---------------------|------------------|
| 10/629,855 | 07/30/2003 | Timothy A. Johnson | 2540-0664 | 6159 |
| DAVIDSON BERQUIST JACKSON & GOWDEY LLP 4300 WILSON BLVD., 7TH FLOOR | | | EXAMINER | |
| | | | VO, TUNG T | |
| ARLINGTON, | ARLINGTON, VA 22203 | | ART UNIT | PAPER NUMBER |
| | | | 2621 | |
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| | | | 07/31/2007 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | | Application No. | Applicant(s) | | | |
|--|---|---|---|--|--|--|
| Office Action Summary | | 10/629,855 | JOHNSON ET AL. | | | |
| | | Examiner | Art Unit | | | |
| | , | Tung Vo | 2621 | | | |
| | The MAILING DATE of this communication app | | 1 | | | |
| Period fo | | | · | | | |
| WHIC - Exten after: - If NO - Failur Any re | CRTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DAISIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATIO 16(a). In no event, however, may a reply be ting ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133). | | | |
| Status | | | | | | |
| 1)🖂 | Responsive to communication(s) filed on <u>06 Ju</u> | <u>ne 2007</u> . | | | | |
| 2a)⊠ | This action is FINAL . 2b) ☐ This action is non-final. | | | | | |
| , | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | |
| | closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | |
| Dispositi | on of Claims | | | | | |
| 5)□ 6)⊠ 7)□ | Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-12 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or | | | | | |
| Application Papers | | | | | | |
| 10)⊠ | The specification is objected to by the Examiner The drawing(s) filed on <u>12 December 2003</u> is/ar Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Ex | re: a)⊠ accepted or b)⊡ objecdrawing(s) be held in abeyance. Se on is required if the drawing(s) is ob | ne 37 CFR 1.85(a). Djected to. See 37 CFR 1.121(d). | | | |
| Priority u | inder 35 U.S.C. § 119 | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | |
| 2) Notice 3) Inform | e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) | 4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal | Pate | | | |
| Pape | Paper No(s)/Mail Date <u>06/06/2007</u> . 6) Other: | | | | | |

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Chiu et al. (US 6,360,017).

Re claims 1 and 7, Chiu discloses a video encoder (fig. 2) comprising:

a pixel value analyzer (110 of fig. 2) analyzing pixel values within a current block of video frame information to determine pixel value frame changes (302 of fig. 3);

a comparator (304 and 306 of fig. 3) testing:

- (i) whether a frame change in pixel value for any one of the pixels in the current block exceeds a first threshold (304 of fig. 3), and
- (ii) whether a second threshold number of pixels in the current block changed in pixel value by at least a third threshold (306 of fig. 3), wherein the second threshold is at least two (306 of fig. 3, Note ith macroblock Bi inherently has more than two), and

a transmitter (308 of fig. 3) transmitting information identifying the pixel values within the block if the comparator determines either condition b.i. or condition b.ii. is true (OUTPUT SIGNAL TO MOTION ESTIMATOR (112 OF FIG. 2)).

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Re claims 2 and 8, Chiu further discloses wherein the transmitter communicates a no change condition in the current block if both conditions of steps b.i. and b.ii. are not true (not true then Bi will be skip, no change, 0 otherwise and <=n then Bi will be skipped, see 304 and 406 of fig. 3).

Re claim 3, Chiu further discloses wherein the communicated no change condition comprises communicating nothing regarding the current block (304 and 306 of fig. 3); and decoding (112 and 126 of fig. 2) the video information by writing current blocks for which nothing is communicated as unchanged compared to a corresponding block in a previous frame.

Re claim 9, Chiu further discloses wherein the communicated no change condition comprises a communication of nothing regarding the current block (skipped or 0, 304 and 306 of fig. 3).

Re claims 4 and 10, Chiu further discloses wherein said second threshold is equal to the number of pixels in the current block (For ith macroblock Bi, 306 of fig. 3).

Re claims 5 and 11, Chiu further discloses wherein said third threshold is greater than one (n is inherently more than one).

Re claims 6 and 12, Chiu further discloses wherein the transmitter further comprises a compressor for compressing the pixel values within the block prior to transmission over a communication channel (116, 118, 120 of fig. 2).

Conclusion

3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung Vo whose telephone number is 571-272-7340. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on 571-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Primary Examiner
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